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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/691,252		10/22/2003	Michael Buchmann	890A.0001.U1(US)	5455
29683	7590	07/06/2006	EXAMINER		
		SMITH, LLP	VU, BAO Q		
4 RESEARO SHELTON,			ART UNIT	PAPER NUMBER	
511221011,	0. 00		2838		
				DATE MAILED: 07/06/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Amelia-Air- No	A					
	Application No.	Applicant(s)					
Office Action Summary	10/691,252	BUCHMANN, MICHAEL					
omee Adden Gammary	Examiner	Art Unit					
The MAILING DATE of this communication and	Bao Q. Vu	2838					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
 Responsive to communication(s) filed on 11 June 2006. This action is FINAL. 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. 							
Disposition of Claims							
4) □ Claim(s) 1-8 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) □ Claim(s) 1-8 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 							
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:						

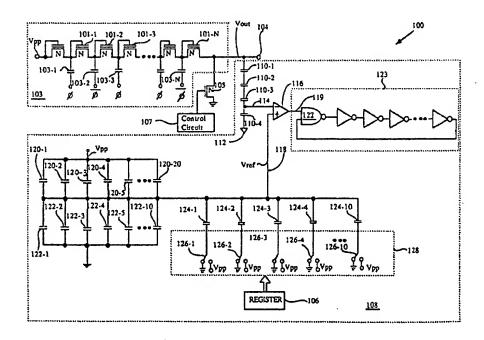
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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kazerounian et al. (USP 5,086,974) in view of Yu (USP 6,304,007). Kazerounian discloses a capacitive multiplier circuit having a diode chain (103) and a charge pump circuitry (128) that connected between the input and output of the multiplier circuit (100). See figure below.



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Yu discloses that it is known in the art to provide a multiplier/ charge pump having capacitors charged in parallel and discharged in series in his prior art. See column 1, lines 18-22, and Yu states that "Switching capacitor is one of the original concepts for the energy conversion. It is available in very limited application such as the energy source for high voltage discharge by connecting an array of capacitors in parallel configuration for charging and in series configuration for discharging." It would have been obvious to one having ordinary skill in the art at the time of the invention was made to provide the a multiplier/charge pump having capacitors charged in parallel and discharged in series of Yu with a capacitive multiplier circuit having a diode chain (103) and a charge pump circuitry (128) that connected between the input and output of the multiplier circuit (100) of Kazerounian, in order to provide a simple way of multiplying, pump or step up the voltage of the capacitive arrays that is one of the earliest and original concept of energy conversion for boosting/ multiplying power.

Response to Arguments

3. Applicant's arguments filed 6-5-06 have been fully considered but they are not persuasive. It is apparent that applicant has misinterpreted the obviousness rejection. One of ordinary skill in the art would know that a given a charge pump circuitry as taught by Kazerounian can be easily implemented into a circuit with any type of multiplier/ charge pump having capacitors charged in parallel and discharged in series. The Yu reference was cited to teach this concept. In essence, the Kazerounian reference was not specific on what type of charge pump/ capacitive multiplier was used

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in this circuit, the Yu was used to clarify that a typical, well known to one of ordinary skill in the art that multiplier/ charge pump having capacitors charged in parallel and discharged in series.

Conclusion

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bao Q. Vu whose telephone number is (571) 272-2088. The examiner can normally be reached on Monday-Thursdays, 8:00AM- 6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Karl Easthom can be reached on (571) 272-2084. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Bao Q. Vu

Primary Examiner Art Unit 2838

June 27, 2006